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Sheet 2

of 4

Complete if Known

Application Number	10/730.628
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Filing Date	12/08/2003
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First Named Inventor	Lange
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Art Unit

Examiner Name

Attorney Docket Number	D/E0008.02
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U. S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner
Signature**

Date Considered

12-13-04

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 3 of 4

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
JD		"Disc Springs", undated, 1 page	
		"General Fundamentals: Rolling Bearing Types", undated, pages 1-13	
		"Mutually-Opposed Springs", undated, page 15	
		Boart Longyear Company, "Environmental Drilling Division: Sonic Drilling", undated, 12 pages	
		"Sonic Drilling Ltd. : Industry in Action", undated, 2 pages	
		"Mechanisms Simplify Timing Between Shafts", undated 2 pages	
		Smallwood, David O., "Vibration Testing Machines", Shock and Vibration Handbook, 4th Edition; Cyril M. Harris, undated, 5 pages	
		ResonantSonic Drilling - Innovative Technology Summary Report", U.S. Department of Energy - Office of Environmental Management - Office of Technology Development, (Online) April 1995, Retrieved from the Internet: http://www.em.doe.gov/plumesfa/intech/rsd/index.html (retrieved on 7-4-02)	
DS		Copy of International Search Report in Corresponding International Application, dated July 12, 2002, 2 pages	

Examiner Signature	Date Considered	12/13/04
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Examiner Name

Sheet	4
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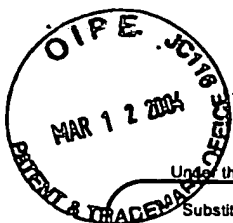
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PTO/SB/08A (08-03)

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U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
DS		US- 1,763,146	06-10-1930	Goodwin	
		US- 2,743,585	05-01-1956	Berthet et al.	
		US- 3,190,369	06-22-1965	Pyles	
		US- 3,217,551	11-16-1965	Bodine Jr.	
		US- 3,467,207	09-16-1969	Pyles et al.	
		US- 3,786,874	01-22-1974	Jodet et al.	
		US- 4,023,628	05-17-1977	Bodine	
		US- 4,217,753	08-19-1980	Loretan	
		US- 4,403,665	09-13-1983	Bodine	
		US- 4,662,459	05-05-1987	Bodine	
		US- 4,693,325	09-15-1987	Bodine	
		US- 4,809,790	03-07-1989	Manchak, Jr.	
		US- 5,027,908	07-02-1991	Roussy	
		US- 5,086,854	02-11-1992	Roussy	
		US- 5,409,070	04-25-1995	Roussy	
		US- 5,417,673	05-23-1995	Gordon	
		US- 5,540,295	07-30-1996	Serrette	
		US- 5,549,170	08-27-1996	Barrow	
		US- 5,562,169	10-08-1996	Barrow	

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		Country Code ² Number ⁴ Kind Code ⁵ (if known)				
DS		SU 1078018	03-07-1984	Gold Rare ...		✓
DS		EP 0240810 A2	10-14-1987	BBC Brown ...		✓
DS		JP 10054432	02-24-1998	Okuma Mach ...		✓

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